

## AMENDMENTS TO THE CLAIMS

1. (Original) A method of processing work units from client systems comprising:  
allocating a plurality of processing slots based on respective priorities of the  
respective client systems; assigning work units to the plurality of processing slots;  
and sending the work units to the client systems for processing.
2. (Original) The method of claim 1, further comprising: receiving a high priority  
work unit from a first client; pushing current work units of the first client onto a  
client stack; and processing the high priority work unit by assigning the high  
priority work unit to the plurality of processing slots.
3. (Original) The method of claim 2, wherein allocating comprises: allocating a  
predetermined number of processing slots to process high priority work units.
4. (Original) The method of claim 3, wherein the predetermined number of  
processing slots approximately corresponds to a predetermined portion of the  
plurality of processing slots, and the plurality of processing slots varies based at  
least in part on availability of resources.
5. (Original) The method of claim 1, wherein the work units comprise network data  
packets.

6. (Original) The method of claim 1, further comprising: re-prioritizing a first work unit in a client stack based at least in part on a second work unit being at least partially dependent upon the first work unit.
7. (Cancelled)
8. (Cancelled)
9. (Cancelled)
10. (Cancelled)
11. (Original) A method of processing multiple threads comprising: allocating a plurality of processing slots based on a priority of the multiple threads; assigning the multiple threads to the plurality of processing slots; sending the multiple threads out for processing; and filling the plurality of processing slots with new threads.
12. (Original) The method of claim 11 further comprising: receiving a first thread having a high priority; pushing an older thread on a stack; and allocating the first thread to the plurality of processing slots.

13. (Original) The method of claim 12 further comprising: popping the older thread from the stack when processing resources become available.
14. (Original) An article comprising: a storage medium which stores instructions, the instructions, when executed, causing systems to: allocate a plurality of processing slots based on a priority of client systems; assign work units to the plurality of processing slots; and send the work units to the client systems for processing.
15. (Original) The article of claim 14, wherein the storage medium further comprises instructions, the instructions, when executed, cause systems to: receive a high priority work unit from a first client; push current work units of the first client onto a client stack; and process the high priority work unit by assigning the high priority work unit to the plurality of processing slots.
16. (Original) The article of claim 14, wherein the storage medium further comprises instructions, the instructions, when executed, cause systems to: re-prioritize a first work unit in a client stack at least partially based on a second work unit being at least partially dependent upon the first work unit.